

REMARKS.

This Response is submitted in reply to the Office Action dated July 9, 2008. Claims 1-14 are pending in the application. The Office Action rejected Claims 1-5, 7-10 and 12-14 under 35 U.S.C. §102, rejected Claim 11 under 35 U.S.C. §103, and objected to Claim 6 as being dependent upon a rejected base claim, but allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Applicants respectfully disagree with and traverse the rejections for at least the reasons below. The Commissioner is hereby authorized to charge deposit account 02-1818 for any fees which are due and owing.

The Office Action rejected Claims 1-5, 7-10 and 12-14 under 35 U.S.C. §102(b) as being anticipated by JP 10-003990 to Nakamura et al. ("Nakamura"), which was also previously cited by Applicant in an Information Disclosure Statement and discussed on pages 1-2 of the Specification. The Office Action rejected Claim 11 under 35 U.S.C. §103(a) as being unpatentable over Nakamura in view of U.S. Patent No. 6,198,217 to Suzuki et al. ("Suzuki").

Of the rejected claims, Claims 1, 8 and 14 are the sole independent claims. Claim 1 recites, at least in part, an organic EL device comprising an anode, a cathode, and an organic layer including a plurality of light emitting layers provided between the anode and the cathode, wherein said light emitting layers comprise a red light emitting layer provided on the anode, a green light emitting layer provided directly on the red light emitting layer, and a blue light emitting layer provided directly on the green light emitting layer. Claim 8 recites, at least in part, a display comprising a color filter provided on a light take-out surface side of an organic EL device for emitting white light, wherein said organic EL device comprises an organic layer including a plurality of light emitting layers, said organic layer interposed between an anode and a cathode. The light emitting layers comprise a red light emitting layer, a green light emitting layer, and a blue light emitting layer laminated in respective order from the anode side. Claim 14 recites, at least in part, an organic EL device comprising an anode, a cathode, and an organic layer including a plurality of light emitting layers provided between the anode and the cathode. The light emitting layers comprise a red light emitting layer provided on the anode, a green light emitting layer provided directly on the red light emitting layer, and a blue light emitting layer provided directly on the green light emitting layer, wherein each of said red light emitting layer and green light emitting layer is composed of a single layer.

As discussed in the Background section of the present application, Nakamura discloses an OLED device for emitting white light having a configuration in which a blue light emitting layer, a green light emitting layer, and a red light emitting layer are laminated in this order from the hole transport layer side. (See, Specification, [0003]). This is completely the opposite order of light emitting layers than that in Claims 1, 8 and 14. Moreover, the white light emitting organic EL device with the configuration in Nakamura has the problem that the emission spectrum is largely varied with current and that the luminous efficacy and the half life of luminance are insufficient for display use. (See, Specification, paragraph [0004]). In addition, the organic EL device is insufficient in balance of respective luminous intensities in blue, green and red wavelength regions. (See, Specification, paragraph [0004]). Therefore, it has been impossible by use of such organic EL devices to obtain a display comparable in color reproduction performance with a CRT. (See, Specification, paragraph [0004]).

In the presently claimed invention, there is provided an organic EL device characterized by the configuration of an organic layer sandwiched between an anode and a cathode. (See, Specification, paragraph [0006]). Specifically, light emitting layers constituting the organic layer include a red light emitting layer, a green light emitting layer, and a blue light emitting layer laminated in this order from the anode side. (See, Specification, paragraph [0006]).

In the organic EL device configured as above, holes (positive holes) injected from the anode is supplied into the light emitting layers from the red light emitting layer side. (See, Specification, paragraph [0007]). On the other hand, electrons injected from the cathode are supplied into the light emitting layers from the blue light emitting layer side. (See, Specification, paragraph [0007]). Therefore, the regions where the holes injected from the anode and the electrons injected from the cathode are coupled, i.e., light emission regions are respectively in the red, green, and blue light emitting layers, and each of the light-emitting layers emits light with the corresponding wavelength. (See, Specification, paragraph [0007]). Particularly, the lamination of the red light emitting layer, the green light emitting layer, and the blue light emitting layer in this order from the anode side permits a configuration such that the injection of holes and electrons as well as the light emission regions can be controlled and that the emission efficacy is higher and the half life of luminance is longer, as compared with the case where a blue light emitting layer, the green light emitting layer, and a red light emitting layer are

laminated in this order from the hole transport layer side, such as in Nakamura. (See, Specification, paragraph [0007]). Accordingly, for at least the reasons discussed above, Nakamura fails to anticipate Claims 1-14. With regard to the 35 U.S.C. §103(a) of Claim 11, Claim 11 depends from Claim 8 and is allowable for the reasons given above.

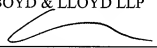
Accordingly, Applicants respectfully request that the 35 U.S.C. §102(b) rejections of Claims 1-5, 7-10 and 12-14, and the 35 U.S.C. §103(a) rejection of Claim 11 be withdrawn.

For at least the reasons above, Applicants respectfully submit that the present application is in condition for allowance and earnestly seek reconsideration of same.

Respectfully submitted,

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